NT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427732

Serial No. ..Premeasurements:

Name of Work ..Improvements to roads ~~From~~ and drains of To kashinagara main road (balance)

Name of Contractor of nature of Agency ..works) in ward no.07 ; byatarayanapura:

Date of commencement of work ..↳ M/s KRIDL

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Est cost:	Rs.40.00 lakhs					
	Job number:	007-18-000039					
	A.S.No:-	AS|EE|BTP|150|17-18, dt: 23-12-17					
	T.S.No:-	TS|CE(YNK)|528|17-18, dt: 12-01-18					
	Agr no:-	EE|BTP|agr| |17-18, dt:					
	Workorder no:-	No.BBMP|EE|BTP|WO|101|17-18, dt: 02-03-18.					
	Workorder amount:-	Rs.39,99,973|-(Including KRIDL charges)					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.01:-						
	Premeasurements recorded on: 06-08-18						
	Earthworks excavation by manual means in ordinary soil, involving an average horizontal throw upto 2m and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled.,						
	Khasinagara main road [1 cross (LHS) to burial ground] - LHS:-						
	0-37	01	37.0	1.0	1.0	= 37.0	
	43-68	01	25.0	1.0	1.0	= 25.0	
	73-111	01	38.0	1.0	1.0	= 38.0	
	116-142	01	26.0	1.0	1.0	= 26.0	
	148-169	01	21.0	1.0	1.0	= 21.0	
	175-205	01	30.0	1.0	1.0	= 30.0	
	205-233	01	28.0	1.0	1.0	= 28.0	
						205 cum	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Desilting of drains:
	Existing drain - RHS:
	0-24
	30-61
	66-96
	96-126
	126-156
	156-184
	205-219
	Khasinagara main road
	0-30

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
08-18			
means in ordinary soil,			
upto 2m and an average			
ed and sides neatly dressed,			
o burial ground] - LHS:-			
1.0		= 37.0	
1.0		= 25.0	
1.0		= 38.0	
1.0		= 26.0	
1.0		= 21.0	
1.0		= 30.0	
1.0		= 28.0	
		205 cum	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427733

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 205.15 7	Reference to last Measurement 8
	Desilting of drains:						
	Existing drain - RHS:						
	0-24	01	24.0	0.60	0.75	= 10.8	
	30-61	01	31.0	0.60	0.75	= 13.95	
	66-96	01	30.0	0.60	0.75	= 13.50	
	96-126	01	30.0	0.60	0.75	= 13.50	
	126-156	01	30.0	0.60	0.75	= 13.50	
	156-184	01	28.0	0.60	0.75	= 12.60	
	205-219	01	14.0	0.60	0.75	= 6.30	
						84.15 cum.	
	Khasinagara main road (burial ground + pvt ppty)						
	0-30	02	30.0	0.60	0.75	= 27.0	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	30-60	2·0	30·0	0·60	0·75	= 27·0	
	60-90	2·0	30·0	0·60	0·75	= 27·0	
	90-120	2·0	30·0	0·60	0·75	= 27·0	
						108·00 cum	
	0-30	2·0	30·0	0·60	0·75	= 27·0	
	30-60	2·0	30·0	0·60	0·75	= 27·0	
	60-90	2·0	30·0	0·60	0·75	= 27·0	
	90-103	2·0	13·0	0·60	0·75	= 11·70	
						92·70 cum	
	Culvert:	1·0	6·0	1·80	1·0	= 10·80	
		1·0	6·0	1·80	1·0	= 10·80	
		1·0	6·0	1·80	1·0	= 10·80	
						32·40 cum	
	Oversbarden earth:	1·0	15·0	2·0	0·9	= 27·0	
	Near burial ground:	1·0	25·0	2·0	1·2	= 60·0	

Serial No. .....

Name of Work ..... F

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
		1·0
		1·0
		01
	Near lake:	
	C & E Recd 6/8/18	
	Item No 02:- Premeasurements	
	Providing and	
	mix 1:4:8 using 40mm	and
	Rec-drain - LHS:- 0-37	1·0
	Bottom: 43-68	1·0

Assistant Executive Engineer
Rodigehalli Sub Div.
Yelahanka Zone, B.B.M.P.
Bangalore.

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
	0·75	= 27·0	
	0·75	= 27·0	
	0·75	= 27·0	
		108·00 cum	
	0·75	= 27·0	
	0·75	= 27·0	
	0·75	= 27·0	
	0·75	= 11·70	
		92·70 cum	
	1·0	= 10·80	
	1·0	= 10·80	
	1·0	= 10·80	
		32·40 cum	
	0·9	= 27·0	
	1·2	= 60·0	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427734

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1·0	20·0	2·50	1·20	= 60·0	
		1·0	25·0	2·95	1·50	= 110·63	
		01	33·0	1·50	2·0	= 99·0	
	Near lake:					356·63 cum	
	(C&E Deep 6/8/18				Total =	878·89 cum	Abstract ND DE(WH)
	Item No. 02:- Premeasurements recorded on: 08-08-18						
	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine.;						
	Rec-drain - LHS:- 0-37	1·0	37·0	1·0	0·15	= 5·55	
	Bottom: 43-68	1·0	25·0	1·0	0·15	= 3·75	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	73-111	01	38.0	1.0	0.15	= 5.70	
	116-142	01	26.0	1.0	0.15	= 3.90	
	148-169	01	21.0	1.0	0.15	= 3.15	
	175-205	01	30.0	1.0	0.15	= 4.50	
	205-233	01	28.0	1.0	0.15	= 4.20	
						30.75 cum	
	Culverts - bottom:	01	6.0	1.80	0.15	= 1.62	
		01	6.0	1.80	0.15	= 1.62	
		01	6.0	1.80	0.15	= 1.62	
						4.86 cum	
	Khasinagasa crossroad:						
		01	34.0	4.0	0.15	= 18.0	
		01	18.0	4.0	0.15	= 10.8	
						28.80 cum	

I & fc
8/8/18

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No. 04:- Premeasu
	Providing YM
0-37:	Mainroad
	Distributio
43-68.	

K

Depth 6	Contents 7	Reference to last Measurement 8
.15	= 5.70	
15	= 3.90	
.15	= 3.15	
15	= 4.50	
0.15	= 4.20	
	30.75 cum	
0.15	= 1.62	
0.15	= 1.62	
0.15	= 1.62	
	4.86 cum	
0.15	= 18.0	
0.15	= 10.8	
	28.80 cum	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427735

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
				Total =		64.41 cum	
				Abstract N.D			
				SE(WI)			
	Item No. 04:- Premeasurements recorded on: 18-08-18						
	Providing TMT steel reinforcement for RCC work;					10mmϕ	8mmϕ
0-37:	Mainroad	01	37.0	4.50	2.6	= 1170	-
	Distribution	01	37.0	7.0	-	-	259
43-68		01	25.0	32.0	2.6	= 832	-
		01	25.0	7.0	-	-	175

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CH: 73-111 Main rod Distribution	01	38.0	460	2.60	1196	-
		01	38.0	7.0	-	-	266
	CH: 116-142.	01	26.0	330	2.60	858	-
		01	26.0	8.0	-	-	208
	CH: 148-169	01	21.0	270	2.70	729	-
		01	21.0	8.0	-	-	168
	CH: 175-205	01	30.0	380	2.70	1026	-
		01	30.0	8.0	-	-	240
	CH: 205-233	01	28.0	370	2.70	999	-
		01	28.0	8.0	-	-	224
				Total =		6810.0	1540.0
	10mm ϕ 0.62 kg/rm. →		4222.2				
	8mm ϕ 0.39 kg/rm. →		600.60				
			4822.8		≈ 4.83 tonne		

Assistant Executive Engineer, Kodigehalli Sub Division, M.R. Yelahanka Zone, Bangalore. 18/8/18

Asst Ex. Engr. (W4) BCP

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No 05:- Premeasu
	Providing and
	RCC drain - sidewall
	0-3
	43-6
	73-11
	116-1
	148-1
	175-2
	205-2

20/8/18

Assistant Executive Engg
Kodigehalli Sub Divis
Yelahanka Zone, B.B.
Bangalore.

OOK

Depth 6	Contents 7	Reference to last Measurement 8
2.60	1196	-
-	-	266
2.60	858	-
-	-	208
2.70	729	-
-	-	168
2.70	1026	-
-	-	240
2.70	999	-
-	-	224
otal =	6810.0	1540.0
4.83-tonne		

M. A. R. 57 (Rule 116)
Measurement Book

No. B
427736

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No 05:- Premeasurements recorded on: 20-08-18						
	Providing and removing centering, shuttering, strutting, propping etc,						
	RCC drain-sidewall:						
	0-37	1x4=4	37.0	-	0.90	= 133.20	
	43-68	1x4=4	25.0	-	0.90	= 90.0	
	73-111	1x4=4	38.0	-	0.90	= 136.80	
	116-142	1x4=4	26.0	-	0.90	= 93.60	
	148-169	1x4=4	21.0	-	0.90	= 75.60	
	175-205	1x4=4	30.0	-	0.90	= 108.00	
	205-233	1x4=4	28.0	-	0.90	= 100.80	
	Qty tbd	16	738.00 sqm			738.00 sqm	

Certified
20/8/18
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Yelahanka Zone, B.B.M.P.,
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Abhilash.N.D
AE(WM)

Abhilash.N.D
AE(WM)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	MAIN-BILL:						
	Name of work:	Improvements to roads and drains of Kashinagara main road (balance work) in ward no.07, byatarayanapura.					
	Est cost:-	Rs.40.00 lakhs.					
	Job number:-	007-18-000039					
	A.S.No:-	AS|EE(BTP)|150|17-18; dt: 23-11-17					
	T.S.No:-	TS|CE(YNK)|528|17-18; dt: 12-01-18					
	Agg.No:-	NO.EE|BTP|Agg| |17-18; dt: 02-03-18					
	Workorder no:-	NO.BBMP|EE|BTP|WO|101|17-18, dt: 02-03-18					
	Date of recording:-						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No.01:- earthwork excav an average horizontal surface levelled and s neatly after breaking Qty vide page At the rate of
	Item No.012- loading and Qty vide item

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
		oads and drains of	
		ain road (balance work) in	
		arayanapura.	
		7-18 ; dt: 23-12-17	
		17-18 ; dt: 12-01-18	
		17-18 ; dt: 02-03-18	
		P/W0/101/17-18, dt: 02-03-18	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427737

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No. 01:- Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed the disposed earth to be levelled neatly after breaking clods complete as per specifications. Qty vide page no. 4278 / 427734 →					878.89 cum	
	At the rate of Rs. 86.72 →						76393.10
	Item No. 02:- Loading and unloading of stone boulders Qty vide item no. 01 →					878.89 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	At the rate of Rs 106.00 →					93162.30	
	Item No.03:- Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cm thick well compacted in foundation and plinth, including cost of all materials labours, tools of machinery, curing. Qty vide page no 4278/427735 → 64.41 cum						
	At the rate of Rs 5159.02 →					332292.45	
	Item No.04:- Providing TMT steel reinforcement for RCC works, including straightening, cutting, bending, hooking, placing in position,						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	lapping and or welding anchoring to the adjoining Qty vide page no At the rate of Rs.	
	Item No.05:- Providing and re etc for columns, pillars, -bar slabs/sidewalls poly complete as per specifica	

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		93162.30	
on plain cement concrete of			
dcon size graded granite			
n layers not exceeding 15cm			
nd plinth, including cost of			
y, curing.			
35 → 64.41 cum			
		332292.45	
tl for RCC works, including			
ing, placing in position,			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427738

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete.						
	@ vide page no. 427/427735 →					4.83 tonne	
	@ the rate of Rs. 64243.42 →						310295.72
	Item No. 05:-						
	Providing and removing centering, shuttering, struting, propping etc for columns, pillars, piers, abutments, post and struts, square/rectangular slabs/sidewalls polygon in plan including cost of materials, labour complete as per specifications.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty vide item no 4278/427736 → 720.60 sqm						
	At the rate of Rs 387.96 →						
							279331.20
	Item No 03:-						
	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs with 20mm & down size graded granite metal coarse aggregates @ 0.878 cum & fine aggregates @ 0.459 cum with superplastizers @ 3 lts conforming to IS 9103 - Re-affirmed - 2008, machine mixed concrete laid in layers not exceeding 15cm th.						
	Rel. Bottom: 0-37	01	37.0	0.90	0.15	= 5.0	
	43-68	01	25.0	0.90	0.15	= 3.38	
	73-111	01	38.0	0.90	0.15	= 5.13	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	116-142
	148-169
	175-205
	205-233
	Sidewall:

K

Depth 6	Contents 7	Reference to last Measurement 8
o Sand		
	279331.20	
forced cement concrete		
width 20mm & down		
les @ 0.878 cum & fine		
e 31% conforming to		
concrete laid in layers		
0.15 = 5.0		
0.15 = 3.38		
0.15 = 5.13		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427739

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	116-142	01	26.0	0.90	0.15	= 3.51	
	148-169	01	21.0	0.90	0.15	= 2.84	
	175-205	01	30.0	0.90	0.15	= 4.05	
	205-233	01	28.0	0.90	0.15	= 3.78	
						27.68 cum	
	Sidewall:	1x2=2	37.0	0.15	0.90	= 9.99	
		1x2=2	25.0	0.15	0.90	= 6.75	
		1x2=2	38.0	0.15	0.90	= 10.26	
		1x2=2	26.0	0.15	0.90	= 7.02	
		1x2=2	21.0	0.15	0.90	= 5.67	
		1x2=2	30.0	0.15	0.90	= 7.20	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1x1=2	28.0	0.15	0.80	=6.72	
						53.61 cum	
					Total=	81.29 cum	
	Qty Hd to 81.00 cum						
	At the rate of Rs. 6371.66 →					516104.45	
	Item No.09:-						
	Providing and fixing 10cms thick precast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labours curing complete as per specifications.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	New-Rcc-drain -LHS:
	0-37
	43-68
	73-111
	116-142
	148-169
	175-205
	205-233
	RCC-drain-old drain-RHS
	0-24
	30-61

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
15	0.80	6.72	
		53.61 cum	
al =	81.29 cum		
		516104.45	
precast RCC		covering slab	
with stone		aggregate 20mm	
ering reinforcement and bar			
layers not exceeding 15cms			
& labours		curing complete	

M. A. R. [illegible] 16)
Measurement Book

No. B 427740

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
				NOS			
	New-Rcc-drain-LHS:						
	0-37	01	37.0	62	0.90	0.60 =	33.48
	43-68	01	25.0	42	0.90	0.60 =	22.68
	73-111	01	38.0	62	0.90	0.60 =	33.48
	116-142	01	26.0	42	0.90	0.60 =	22.68
	148-169	01	21.0	40	0.90	0.60 =	21.60
	175-205	01	30.0	50	0.90	0.60 =	27.0
	205-233	01	28.0	45	0.90	0.60 =	24.30
							185.22 sqm.
	Rcc-drain-old drain-RHS:						
	0-24	01	24.0	45.0	0.90	0.60 =	24.3
	30-61	01	31.0	52.0	0.90	0.60 =	28.08

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	66-96	01	30.0	53	0.90	0.60	= 28.62
	96-126	01	30.0	53	0.90	0.60	= 28.62
	126-156	01	30.0	50	0.90	0.60	= 27.0
	156-184	01	28.0	52	0.90	0.60	= 28.08
	205-219	01	14.0	25.0	0.90	0.60	= 13.50
						Total =	178.20 Sqm
	Khasinagaon main road from (burial ground to pvt ppty)						
	0-30	02	30.0	102	0.90	0.60	= 55.08
	30-60	02	30.0	102	0.90	0.60	= 55.08
	60-90	02	30.0	102	0.90	0.60	= 55.08
	90-120	02	30.0	102	0.90	0.60	= 55.08
						Total =	220.32 Sqm
	From main road to lake:						
	0-30	02	30.0	101	0.90	0.60	= 54.54

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	30-60	02
	60-90	02
	90-103	0
	Qty Ltd to 774.0	
	At the rate of Re.	
	Item No.06:-	
	Providing and	
	in foundation with cement	

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
	0.90	0.60	= 28.62
	0.90	0.60	= 28.62
	0.90	0.60	= 27.0
	0.90	0.60	= 28.08
	0.90	0.60	= 13.50
		Total =	178.20 sqm
		round to pvt pty)	
	0.90	0.60	= 55.08
	0.90	6.60	= 55.08
	0.90	0.60	= 55.08
	0.90	0.60	= 55.08
		Total =	220.32 sqm
1	0.90	0.60	= 54.54

M. A. R. [illegible]116)
Measurement Book

No. B 427741

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	30.60	02	30.0	101	0.90	0.60	= 54.54
	60-90	02	30.0	101	0.90	0.60	= 54.54
	90-103	02	13.0	50	0.90	0.60	= 27.0
						Total=	190.62 sqm
						Total=	774.36 sqm
	Qty Ltd to 774.00 sqm						
	At the rate of Rs. 2100.00 →						1625400.00
	Item No.06:- Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	20cm high, bond stones at two m apart in each course not less than 20cm, including cost of materials, labours, curing etc., complete as per specifications:						
	Culvert sidewall:						
	Khasinagara mainroad:	1x2=2	6.0	0.45	0.90	= 4.86	
		1x1=2	6.0	0.45	0.90	= 4.86	
		1x2=2	6.0	0.45	0.90	= 4.86	
						14.58 cum	
	At the rate of Rs.	4438.22					64709.25
	Item No.07:-						
	Providing ruled pointing of coorse stone masonry with cement						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	mortar 1:3, 20mm deep, including cost of materi specifications and dire
	Pointing to sidewall:-
	At the rate of

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
in	each course not less		
l of	materials, labour,		
ns:			
.45	0.90 = 4.86		
.45	0.90 = 4.86		
.45	0.90 = 4.86		
		14.58 cum	
		64709.25	
se	stone masonry with cement		

M. A. R. [illegible] (116)
Measurement Book

No. B 427742

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining,						
	including cost of materials, labour, curing etc., complete as per						
	specifications and directions of the engineer in charge.						
	Pointing to sidewall:-						
		1x2=2	6.0	-	0.90	= 10.80	
		1x2=2	6.0	-	0.90	= 10.80	
		1x2=2	6.0	-	0.90	= 10.80	
						32.40 Sqm	
							1133.35
	At the rate of Rs. 34.98 →						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 10:- Providing and fixing 20cm thick precast RCC covering slab using reinforced cement concrete 1:2:4 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm thick well compacted cost of all materials labour curing complete as per specifications.						
	Culvert covering slab:-	30	1.80	0.60	-	= 32.40 Sqm	
	At the rate of Rs. 5111.00 →					165536.40	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	Item No. 08:- Providing and l 1:2:4 with cement c 240 k coarse aggregates e 0.6 mixed concrete laid in l foundation, plinth and HOM machinery curin Culvert - bottom:	

BOOK

s		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
		precast RCC covering o mix with stone aggregate shuttering reinforcement laid in layers not of all materials labour	
0 -		= 32.40 sqm	
		165536.40	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427743

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Item No.08:- Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs with coarse and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459 cum, machine mixed concrete laid in layers not exceeding 15cms, th well compacted in foundation, plinth and cills including cost of all materials, labour, HOM machinery curing complete as per specifications.						
	Culvert - bottom:	01	6.0	0.60	0.10	= 0.36	
		01	6.0	0.60	0.10	= 0.36	
		01	6.0	0.60	0.10	= 0.36	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Culvert sidewall coping	1x2=2	6.0	0.45	0.10	= 0.54	
		1x2=2	6.0	0.45	0.10	= 0.54	
		1x2=2	6.0	0.45	0.10	= 0.54	
	Khasinagara cross road	01	30.0	4.0	0.10	= 12.0	
		01	17.0	4.0	0.10	= 6.80	
						21.50 cum	
							124000.39
	At the rate of Rs	5767.46 →					
	Total=	3588418.60					
	Add 10% SIRPDL charges =	358841.86					
	Add 1% cess charges =	35884.18					
	Grand total=	3983144.60				Abstract N.D	

AE(Civil)
08/10/18

Assistant Executive Engineer,
Kodigenahalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Cess 8/10/18

Serial No. .....
Name of Work ..... Fr
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Numb
1	2	3
	towards NH1. ← Amruthahalli Medplus	

Abstract N.D
AE(Civil)

Burial

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
45	0.10	= 0.54	
45	0.10	= 0.54	
45	0.10	= 0.54	
1.0	0.10	= 12.0	
1.0	0.10	= 6.80	
		21.50 cum	
		124000.39	

Abhilly. N.D
AE(Civil)
08/10/18

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427744

Serial No. ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	towards NH1 ← Amruthahalli main road → towards amruthahalli						

Medplus

1st cross

2nd Across (205m drain)

3rd Across

4th Across

5th Across.

INDEX
- RCC drain

Abhilly. N.D
AE(Civil)

Burial ground

PLAN

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	certificate:						
	1) certified that the contractor has completed the works satisfactorily.						
	2) certified that the debris has been removed from the work spot.						
	Rotplly. N.D AE(WT)						
	Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.						
	Assistant Executive Engineer Byatarayanapura Sub-Division KRIDL, BBMP, Bangalore						

Serial No. ...Royalty charges:
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
Sl.No.	Details
02	64.41 cum - 1:4:8
03	81.0 cum - M20.
06	14.58 cum - SSM(1:6) F
07	Pointing - 32.40 sqm
08	20mm - 1:2:4 - 21.50 cum
	Total=
	Abstract:
	1) coarse aggregate:
	2) fine - aggregate:

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
		npleted the work	
		emoved from the work	
		Executive Engineer, alli Sub Division, ka Zone, B.B.M.P., Bangalore.	

M. A. R. [illegible] 16)
Measurement Book

No. B 427745

Serial No. ...Royalty charges:
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Sl. No. Details		coarse qty		fine qty.		
		co-eff		co-eff			
02	64.41 cum - 1:4:8	0.96	61.83	0.48	30.92		
03	81.0 cum - M20.	0.85	68.85	0.416	33.70		
06	814.58 cum - SSM(1:6) F	1.05	15.30	0.28	4.08		
07	Pointing - 32.40 sqm	-	-	0.2/10	0.648		
08	20mm - 1:2:4 = 21.50 cum	0.90	19.35	0.45	9.67		
	Total=		165.33		79.0		
	Abstract:						
	1) coarse aggregate:	165.33	x 108 =	17855.60			
	2) fine-aggregate:	79.0 x	103 =	8137.0			
				25992.00			

MEAS NT BOOK

Date	Full description, etc, of work	N	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
1	2		5	6	7	8
					Total Rs: 39,83,144-00	
					IT - 79663-00	
					Cess - 39831-00	
					CBF - 3983-00	
					LR - 25992-00	
					Fine - 5725-00	
					FSD - 199157-00	
					CGST - 35564-00	
					SGST - 35564-00	
					Adju. 425479-00	
					Cheques 35,57,665-00	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 39,83,144-00

ಗಳ್ಳಿಹಾಸ್ಯ ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ 425479-00

ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು ರೂ 35,57,665-00

Rs Thirty five Lakh fifty Seven Thousand Six Hundred Sixty five only

ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು 30/01

ಸಹಾಯಕ ಇಂಜಿನಿಯರ್ 30/01

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ 30/01

ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work
1	2